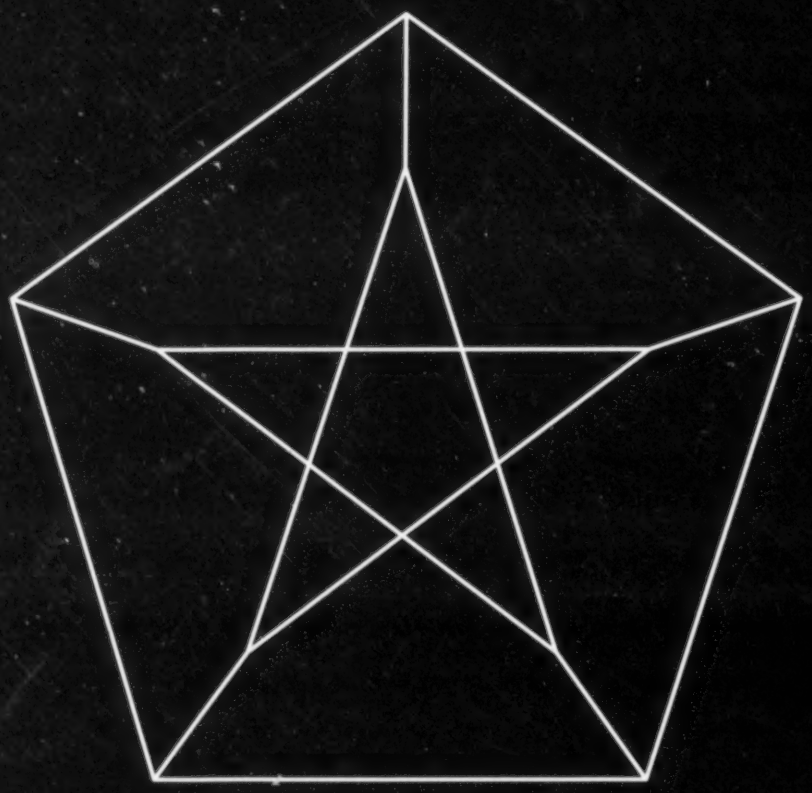
DISCRETE MATHEMATICS



NORTH-HOLLAND

DISCRETE MATHEMATICS

Editor-in-Chief Peter L. Hammer, Piscataway (NJ)

Advisory Editors
C. Berge, Paris
A.J. Hoffman, Yorktown Heights (NY)
V.L. Klee, Seattle (WA)
R.C. Mullin, Waterloo
V.T. Sós, Budapest
J.H. van Lint, Eindhoven

Board of Editors
M.S. Aigner, Berlin
B. Alspach, Burnaby
G.E. Andrews, Univ. Park (PA)
A. Barlotti, Firenze
C. Benzaken, Grenoble
J.-C. Bermond, Sophia-Antipolis
N.L. Biggs, London
B. Bollobás, Memphis (TN)
R.A. Brualdi, Madison (WI)
T.H. Brylawski, Chapel Hill (NC)
P.J. Cameron, London
P. Camion, Le Chesnay
G. Chartrand, Kalamazoo (MI)
V. Chvátal, Piscataway (NJ)
D. Foata, Strasbourg
A.S. Fraenkel, Rehovot
P. Frankl, Tokyo
A.M. Frieze, Pittsburgh (PA)
I.M. Gessel, Waltham (MA)
R.L. Graham, La Jolla (CA)
A. Hajnal, Budapest
F. Harary, Las Cruces (NM)
D.M. Jackson, Waterloo
J. Kahn, Piscataway (NJ)
G.O.H. Katona, Budapest
D.J. Kleitman, Cambridge (MA)
A.V. Kostochka, Urbana (IL)
P. Leroux, Montreal
L. Lovász, Redmond (WA)
I. Rival, Ottawa
A. Rosa, Hamilton
I.G. Rosenberg, Montreal
S. Rudeanu, Bucharest
H. Sachs, Ilmenau
J. Schonheim, Tel-Aviv
N.J.A. Sloane, Florham Park (NJ)
C. Thomassen, Lyngby
W.T. Trotter, Tempe (AZ)
W.T. Tutte, Newmarket
D.J.A. Welsh, Oxford
D.B. West, Urbana (IL)
R. Wille, Darmstadt
D.R. Woodall, Nottingham
H.P. Yap, Singapore

Editorial Manager Carolyn Sterner **Issue Manager** Mick van Gijlswijk

Publication Information: Discrete Mathematics (ISSN 0012-365X). For 2000 volumes 210–225 are scheduled for publication. A combined subscription to Discrete Mathematics and Discrete Applied Mathematics (Vols. 98–106) at reduced rate is available. Subscription prices are available upon request from the Publisher or from the Regional Sales Office nearest you or from this journal's website (http://www.elsevier.nl/locate/disc). Further information is available on this journal and other Elsevier Science products through Elsevier's website (http://www.elsevier.nl). Subscriptions are accepted on a prepaid basis only and are entered on a calendar year basis. Issues are sent by standard mail (surface within Europe, air delivery outside Europe). Priority rates are available upon request. Claims for missing issues should be made within six months of the date of dispatch.
Orders, claims, and product enquiries: please contact the Customer Support Department at the Regional Sales Office nearest you:
New York: Elsevier Science, PO Box 945, New York, NY 10159-0945, USA; phone: (+1) (212) 633 3730 [toll free number for North American customers: 1-888-4ES-INFO (437-4636)]; fax: (+1) (212) 633 3680; e-mail: usinfo-f@elsevier.com
Amsterdam: Elsevier Science, PO Box 211, 1000 AE Amsterdam, The Netherlands; phone: (+31) 20 4853757; fax: (+31) 20 4853432; e-mail: nlinfo-f@elsevier.nl
Tokyo: Elsevier Science, 9–15 Higashi-Azabu 1-chome, Minato-ku, Tokyo 106-0044, Japan; phone: (+81) (3) 5561 5033; fax: (+81) (3) 5561 5047; e-mail: info@elsevier.co.jp
Singapore: Elsevier Science, No. 1 Temasek Avenue, #17-01 Millenia Tower, Singapore 039192; phone: (+65) 434 3727; fax: (+65) 337 2230; e-mail: asiainfo@elsevier.com.sg
Rio de Janeiro: Elsevier Science, Rua Sete de Setembro 111/16 Andar, 20050-002 Centro, Rio de Janeiro – RJ, Brazil; Phone: (+55) (21) 509 5340; fax: (+55) (21) 507 1991; e-mail: elsevier@campus.com.br [Note (Latin America): for orders, claims and help desk information, please contact the Regional Sales Office in New York as listed above]

DISCRETE MATHEMATICS

DISCRETE MATHEMATICS

MASTER INDEX
VOLUMES 211–220

ELSEVIER, Amsterdam–Lausanne–New York–Oxford–Shannon–Tokyo

© 2000, Elsevier Science B.V. All rights reserved

This journal and the individual contributions contained in it are protected under copyright by Elsevier Science B.V., and the following terms and conditions apply to their use:

Photocopying

Single photocopies of single articles may be made for personal use as allowed by national copyright laws. Permission of the publisher and payment of a fee is required for all other photocopying, including multiple or systematic copying, copying for advertising or promotional purposes, resale, and all forms of document delivery. Special rates are available for educational institutions that wish to make photocopies for non-profit educational classroom use.

Permissions may be sought directly from Elsevier Science Global Rights Department, PO Box 800, Oxford OX5 1DX, UK; phone: (+44) 1865 843830, fax: (+44) 1865 853333, e-mail: permissions @elsevier.co.uk. You may also contact Global Rights directly through Elsevier's home page (http://www.elsevier.nl), selecting 'Obtaining Permissions'.

In the USA, users may clear permissions and make payments through the Copyright Clearance Center, Inc., 222 Rosewood Drive, Danvers, MA 01923, USA; phone: (978) 7508400, fax: (978) 7504744, and in the UK through the Copyright Licensing Agency Rapid Clearance Service (CLARCS), 90 Tottenham Court Road, London W1P 0LP, UK; phone: (+44) 20 7631 5555; fax: (+44) 20 7631 5500. Other countries may have a local reprographic rights agency for payments.

Derivative Works

Subscribers may reproduce tables of contents or prepare lists of articles including abstracts for internal circulation within their institutions. Permission of the publisher is required for resale or distribution outside the institution.

Permission of the publisher is required for all other derivative works, including compilations and translations.

Electronic Storage or Usage

Permission of the publisher is required to store electronically any material contained in this journal, including any article or part of an article.

Except as outlined above, no part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without prior written permission of the publisher.

Address permissions requests to: Elsevier Science Global Rights Department, at the mail, fax and e-mail addresses noted above.

Notice

No responsibility is assumed by the Publisher for any injury and/or damage to persons or property as a matter of products liability, negligence or otherwise, or from any use or operation of any methods, products, instructions or ideas contained in the material herein. Because of rapid advances in the medical sciences, in particular, independent verification of diagnoses and drug dosages should be made.

Although all advertising material is expected to conform to ethical (medical) standards, inclusion in this publication does not constitute a guarantee or endorsement of the quality or value of such product or of the claims made of it by its manufacturer.

Abstracted/Indexed in: ACM Computing Reviews, Anbar Electronic Intelligence, Cambridge Scientific Abstracts, Current Contents: Physical, Chemical & Earth Sciences, International Abstracts in Operations Research, Mathematical Reviews, PASCAL, Science Citation Index, Zentralblatt für Mathematik.

♾ The paper used in this publication meets the requirements of ANSI/NISO Z39.48-1992 (Permanence of Paper)

Editor-in-Chief

Peter L. Hammer, *RUTCOR, Rutgers, the State University of New Jersey, 640 Bartholomew Road, Piscataway, NJ 08854-8003, USA*

Advisory Editors

C. Berge, *E.R. Combinatoire, Centre de Mathématique Sociale, 54 Boulevard Raspail, 75270 Paris Cedex 06, France*

A.J. Hoffman, *Mathematical Sciences Department, IBM Thomas Watson Research Center, P.O. Box 218, Yorktown Heights, NY 10598, USA*

V.L. Klee, *Department of Mathematics, University of Washington, Seattle, WA 98195, USA*

R.C. Mullin, *Department of Combinatorics & Optimization, University of Waterloo, Waterloo, Ont., Canada N2L 3G1*

V.T. Sós, *Mathematical Institute, Elke TTK Analisis 1, Muzeum Krt. 6–8, H-Budapest 8, Hungary*

J.H. van Lint, *Technische Universiteit, Insulindelaan 2, 5612 AZ Eindhoven, Netherlands*

Board of Editors

M.S. Aigner, *FB Mathematik, WE2, Freie Universität Berlin, Arnimallee 3, 14195 Berlin 33, Germany*

B. Alspach, *Department of Mathematics & Statistics, Simon Fraser University, Burnaby, B.C., Canada V5A 1S6*

G.E. Andrews, *Department of Mathematics & Statistics, Pennsylvania State University, University Park, PA 16802, USA*

A. Barlotti, *Istituto Matematico "Ulisse Dini", Viale Morgagni 67/A, I-50134 Firenze, Italy*

C. Benzaken, *Institute of Advanced Mathematics, Scientific and Medical, University of Grenoble, BP 53X, 38041 Grenoble Cedex, France*

J.-C. Bermond, *Project SLOOP, I3S-INRIA, 2004 Route des Lucioles, BP 93, F-06902 Sophia-Antipolis, France*

N.L. Biggs, *Department of Mathematics, London School of Economics, Houghton Street, London WC2A 2AE, UK*

B. Bollobás, *Department of Mathematical Sciences, University of Memphis, Campus Box 526429, Memphis, TN 38152-6429, USA*

R.A. Brualdi, *Department of Mathematics, University of Wisconsin-Madison, 480 Lincoln Drive, Madison, WI 53706, USA*

T.H. Brylawski, *Department of Mathematics, University of North Carolina, Chapel Hill, NC 27514, USA*

P.J. Cameron, *School of Mathematical Sciences, Queen Mary College, University of London, Mile End Road, London E1 4NS, UK*

P. Camion, *INRIA, Domaine de Volucean-Rocquencourt, BP 105, Le Chesnay Cedex 78153, France*

G. Chartrand, *Department of Mathematics, Western Michigan University, Kalamazoo, MI 49008, USA*

V. Chvátal, *Department of Computer Science, Rutgers, the State University of New Jersey, Hill Center, Piscataway, NJ 08855, USA*

D. Foata, *Département Mathématique, Université Louis Pasteur, 7 rue René Descartes, F-67084 Strasbourg, France*

A.S. Fraenkel, *Department of Applied Mathematics, Weizmann Institute of Science, IL-76100 Rehovot, Israel*

P. Frankl, *Shibuya-Ku, Higashi 1-10-30301, Tokyo 150, Japan*

A.M. Frieze, *Department of Mathematics, Carnegie Mellon University, Pittsburgh, PA 15213, USA*

I.M. Gessel, *Department of Mathematics, Brandeis University, P.O. Box 9110, Waltham, MA 02254-9110, USA*

R.L. Graham, *University of California-San Diego, CSE APM, La Jolla, CA 92093-0114, USA*

A. Hajnal, *Mathematical Institute, Hungarian Academy of Science, Reáltanoda u. 13–15, H-1053 Budapest, Hungary*

F. Harary, *Department of Computer Science, New Mexico State University, Las Cruces, NM 88003, USA*

D.M. Jackson, *Combinatorics & Optimization, University of Waterloo, Waterloo, Ont., Canada N2L 3G1*

J. Kahn, *Department of Mathematics, Rutgers, the State University of New Jersey, Hill Center, Piscataway, NJ 08855, USA*

G.O.H. Katona, *Matematik Kutato Intez, Magyar Tudomanyos Akad, Reáltanoda u. 13–15, H-1053 Budapest, Hungary*

D.J. Kleitman, *Department of Mathematics, Massachusetts Institute of Technology, Cambridge, MA 02139, USA*

A.V. Kostochka, *Department of Mathematics, University of Illinois at Urbana-Champaign, 1409 West Green Street, Urbana, IL 61801-2975, USA*

P. Leroux, *Département de Mathématiques et Informatiques, Université du Quebec a Montréal, CP 888 Succ. A., Montreal, Quebec, Canada H3C 3P8*

L. Lovász, *Microsoft Research, One Microsoft Way, Redmond, WA 98052, USA*

I. Rival, *Department of Computer Science, University of Ottawa, Ottawa, Ont., Canada K1N 6N5*

A. Rosa, *Department of Mathematics, McMaster University, Hamilton, Ont., Canada L8S 4K1*

I.G. Rosenberg, *Mathématiques et Statistiques, Université de Montréal, B.P. 6218, Succ. A., Montreal, Quebec, Canada H3C 3J7*

S. Rudeanu, *Institutei de Mathematica, University of Bucharest, Str. Academiei 14, 70109 Bucaresti, Romania*

H. Sachs, *TH/Sekt. Mathematik, Rechentechnik und Kybernetik, Postfach 327, 98693 Ilmenau, Germany*

J. Schonheim, *Department of Mathematics, Tel Aviv University, Ramat Aviv, IL-Tel Aviv, Israel*

N.J.A. Sloane, *AT&T Research Labs., Room C233, P.O. Box 971, 180 Park Ave, Florham Park, NJ 07932-0971, USA*

C. Thomassen, *Mathematical Institute, Technical University of Denmark, Building 303, DK-2800 Lyngby, Denmark*

W.T. Trotter, *Department of Mathematics, Arizona State University, Tempe, AZ 85287, USA*

W.T. Tutte, *151 Manderston Road, Newmarket, Suffolk CB8 0NS, UK*
D.J.A. Welsh, *Mathematical Institute, University of Oxford, 24–29 St. Giles, Oxford OX1 3LB, UK*
D.B. West, *Department of Mathematics, University of Illinois at Urbana-Champaign, 273 Altgeld Hall, 1409 West Green Street, Urbana, IL 61801-2975, USA*
R. Wille, *Fachbereich Mathematik, Technische Hochschule Darmstadt, Schlossgartenstrasse 7, 64289 Darmstadt, Germany*
D.R. Woodall, *Department of Mathematics, University of Nottingham, University Park, Nottingham NG7 2RD, UK*
H.P. Yap, *Department of Mathematics, National University of Singapore, Singapore 0511, Singapore*

List of referees: volumes 211–220

DISCRETE MATHEMATICS has continuously benefitted from the kind assistance of a great number of referees. We hereby express our gratitude for their sustained efforts, without which our activity could not have been carried out.

the editors

B.D. Acharya
A. Adam
J. Adamek
M. Adams
A.A. Ageev
M. Aigner
A. Ainouche
A. Akhavi
M.O. Albertson
R.E.L. Aldred
E. Allen
D. Amar
N. Ananchuen
L.D. Andersen
G.E. Andrews
K.T. Arasu
D. Archdeacon
J.W. Aronson
A.M. Assaf
M.D. Atkinson
M. Baca
C.A. Baker
S. Baldwin
K.T. Balinska
I. Barany
A. Barlotti
W.W. Barrett
L.M. Batten
D. Bauer
U. Baumann
M.M. Bayer
J. Beck
R.A. Beezer
E. Behrends
L.W. Beineke
W. Benz
L. Berardi
F. Bergeron
N. Bergeron
A. Berman
C. Bessenrodt
A. Betten
A. Beutelspacher
A. Bichara
H. Bielak
L.J. Billera
S. Billey
E.J. Billington
G.R. Blakley
A. Blass
A. Blokhuis
H.L. Bodlaender
J. Boland
M. Bona
C.P. Bonnington
O.V. Borodin
M. Borowiecki
M. Bousquet-Melou
D. Bowman
A. Brandstadt
P. Brass
F. Brenti
G.R. Brightwell
A. Brini
I. Broere
H.J. Broersma
J.I. Brown
R.A. Brualdi
K. Brys
Cai Leizhen
Cai Mao-Cheng
C.S. Calude
P.J. Cameron
A.R. Camina
E.R. Canfield
Y. Caro
R. Cerf
M.A. Chamberland
Chang Gerard J.
P. Charpin
G. Chartrand
Chen Guantao
Chen Zhi-Hong
Chen Zhibo
Cheng Christine T.
V.D. Chepoi
J. Cheriyan
D. Cieslik
R. Cignoli
L.H. Clark
R.J. Clarke
A.M. Cohen
G. Cohen
S.D. Cohen
C.J. Colbourn
Y. Colin de Verdiere
D.G. Corneil
G. Cornuejols
A. Cossidente
J. Csima
D. Cvetkovic
E. Dahlhaus
P. Damaschke
D. de Werra
N. Dean
M. Dehon
A. Del Fra
C. Delorme
E. Demaine
E. Deutsch
G. Ding
M.J. Dinneen
J. Doyen
I.M. Duursma
A.M. Duval
W.M. Dymacek
K.J. Edwards

R. Ehrenborg
S. El Zanati
H. Enomoto
M. Erickson
A.B. Evans
U. Faigle
G. Faina
G. Falcone
R.J. Faudree
O. Favaron
S.P. Fekete
M.A. Fiol
S. Fiorini
E. Flandrin
D. Foata
S. Foldes
S. Fomin
K.B. Ford
E.W. Formanek
J.L. Fouquet
P.W. Fowler
Z. Franco
H.M. Fredricksen
M. Frick
D. Froncek
W. Frydrych
S. Fujishige
Z. Furedi
P. Gacs
J.A. Gallian
G. Gancarzewicz
Gao Shuhong
R.J. Gardner
J.P. Georges
B. Gerards
A. Geroldinger
I. Gessel
P.B. Gibbons
J. Gimbel
R.E. Giudici
W. Goddard
L.A. Goddyn
S.W. Golomb
R.J. Gould
I.P. Goulden
R.L. Graham
R.J. Greechie
M. Greferath
M. Groetschel
H.-D. Gronau
H. Gropp
J.W. Grossman
B. Grunbaum
D.R. Guichard
M. Guignard-Spielberg
V.A. Gurvich
I. Gutman
A. Gyarfas
W.H. Haemers
G. Hahn
S.L. Hakimi
A.W. Hales
A. Hamel
D. Hartvigsen
J.H. Hattingh
F. Havet
H. Havlicek
P. Hell
M.A. Henning
A. Hertz
P. Higgins
J.W.P. Hirschfeld
M.D. Hirschhorn
A.M. Hobbs
W. Hochstaettler
I. Honkala
P. Horak
M. Hornak
J.D. Horton
H. Hotje
W.J. Hsu
H. Imai
R.W. Irving
Y. Ishigami
A. Itai
J. Ivanco
B. Jackson
J. Jedwab
S. Jendrol
Jin Guoping
N.L. Johnson
W.P. Johnson
H.A. Jung
D. Jungnickel
A. Jurisic
A. Kaffanke
J. Kahn
G. Kalai
R. Kalinowski
G. Kalmbach
A. Kaneko
M. Kano
G. Karolyi
M. Katchalski
G.Y. Katona
K.P. Keating
A.D. Keedwell
O. Kegel
A. Kemnitz
J.W. Kennedy
Kim Jeong Han
N.G. Kinnersley
S. Kirkland
S. Klavzar
V. Klee
S.L. Kleiman
A. Kleinschmidt
W.F. Klostermeyer
T. Klove
M. Knor
Koh Khee Meng
J.C. Konig
G. Korchmaros
B. Korte
A.V. Kostochka
M. Kouider
S. Kounias
I. Krasikov
D. Kratsch
C. Krattenthaler
A. Kreuzer
W. Kubiak
J.P. Kung
M. Kwasnik
J. Labelle
J.C. Lagarias
Lai Hong-Jian
J.M. Landesberg
J.F. Lawrence
C. Laywine
Le Van Bang
I. Leader
J. Lehel
M. Lemos
P. Leroux
V.E. Levit
Li Cai Heng
Li Hao
Li Mingchu
Li Xueliang
C.C. Lindner
V. Linek
V.A. Liskovets
S. Litsyn
Liu Guizhen
Liu Jiping
E.K. Lloyd
D.E. Loeb
M. Loebl
Z. Lonc
M. Lovrecic Sarazin
V.V. Lozin
A. Lubiw
T. Luczak
J.R. Lundgren

S. Lvovski
J.F. Lynch
G. MacGillivray
A. Machi
F. Maffray
S.S. Magliveras
N.V.R. Mahadev
M. Maheo
A.R. Mahjoub
Z. Majcher
C. Mallows
M. Marchi
O. Marcotte
A. Marczyk
N. Martin
D. Marusic
W. McCuaig
C. McDiarmid
R. McKenzie
A. Mercier
R. Merris
M. Meszka
J. Michael
P. Mihok
M. Miller
Z. Miller
S.C. Milne
M. Minoux
C. Mitchell
J.S.B. Mitchell
D. Moews
B. Mohar
B. Monien
P. Monsky
J.P. Morgan
M.A. Morgana
H. Mueller
H.M. Mulder
K. Murota
W. Myrvold
C.St.J. Nash-Williams
S. Negami
J. Nesetril
H. Noltemeier
M. Noy
P.M. Nylen
C.M. O'Keefe
Y. Oda
B. Oporowski
B. Orchel
U. Ott
J. Pach
L. Pachter
P.M. Pardalos
A. Pasini
P. Paule
P. Paulraja
A. Pekec
A. Pelc
U.N. Peled
D. Peleg
T. Penttila
D. Peterson
K.T. Phelps
B. Piazza
R. Piene
G. Pilz
R. Pinzani
T. Pisanski
D. Pisinger
K. Piwakowski
M.J. Plantholt
P. Plauman
J. Plesnik
A. Pluhar
A. Postnikov
M. Preissmann
A. Prekopa
O. Pretzel
E. Prisner
D. Pritikin
H.J. Proemel
A.R. Pruss
A. Prykarpatski
J.H. Przytycki
A. Pultr
E.M. Rains
D. Rautenbach
D. Rawlings
M. Razpet
R.C. Read
B.A. Reed
R. Rees
T.J. Reid
V. Reiner
J.B. Remmel
F. Rendl
C. Reutenauer
R.B. Richter
J. Richter-Gebert
C.A. Rodger
T.D. Rogers
A. Rosa
M. Rosenfeld
G. Rote
F. Roussel
P. Rowlinson
A. Rucinski
S. Rudeanu
I. Rusu
Z. Ryjacek
H. Sachs
A. Saito
M. Saks
J. Sanchez
N.W. Sauer
R. Scapellato
G. Schaar
E.R. Scheinerman
R.H. Schelp
B. Schieber
I. Schiermeyer
E. Schmeichel
R. Schneider
J. Schonheim
R. Schrader
R.-H. Schulz
A.J. Schwenk
A. Sebo
M. Senechal
Sho Jia-Yu
L.W. Shapiro
J. Sheehan
F.B. Shepherd
Shi Ying Guang
Shin Dong-Joon
E.E. Shult
J. Sichler
E. Sidorowicz
I.J. Siemons
S. Simic
R.E. Simion
J.E. Simpson
R.J. Simpson
D. Singerman
J. Siran
Z. Skupien
N.J.A. Sloane
W.F. Smyth
H.S. Snevily
P. Sole
L. Soltes
Song Sung-Yell
M. Sonntag
Soo Hak Sung
V.T. Sós
F. Sottile
E. Spence
J. Spinrad
R. Sprugnoli
P.K. Stockmeyer
L. Storme
K. Strambach
V. Strehl
G. Stroth

J. Stufken
R.A. Sulanke
R. Swaminathan
M.M. Syslo
L.A. Szekely
T. Szonyi
A. Takahashi
S.M. Tanny
C. Tardif
G. Tardos
L. Teirlinck
J.A. Thas
A.G. Thomason
C. Thomassen
H. Thuillier
G. Tinhofer
V.D. Tonchev
G. Toth
A.N. Trenk
W.T. Trotter
M. Truszczynski
A. Tucker
G. Turan
F. Uhlig
D. Ullman
H. Van Maldeghem
G.H.J. van Rees
H.C.A. van Tilborg
T.I. Visentin
M. Voigt
Volcic
L. Volkmann
S. Voss
J. Vygen
M.L. Wachs
A. Wagler
M. Wagner
C. Wallis
T. Walsh
G. Walther
Wang Da-Wei
Wang Hong
H. Ward
S. Wasowicz
A. Wassermann
W.D. Weakley
Wei Bing
D.J.A. Welsh
E. Welzl
D.B. West
M.A. Whittlesey
E. Wilkeit
R. Willard
S.G. Williamson
J.M. Wills
P.M. Winkler
D.R. Witte
I. Wloch
G.J. Woeginger
P. Wojcik
A.P. Wojda
D.R. Woodall
N.C. Wormald
M. Wozniak
Wu Haidong
Xu Shaoji
H.-F. Yamada
H.P. Yap
Yeh Roger K
Z. Yu
Yu Qinglin
J.E. Yukich
J. Zaks
T. Zamfirescu
Zang Wenan
D. Zeilberger
H. Zeitler
B. Zelinka
Zha Xiaoya
Zhang Cun-Quan
Zhang Fuji
Zhu Lie
G.M. Ziegler
P.-H. Zieschang
I.A. Ziolo
I.E. Zverovich
V.E. Zverovich
M. Zwonek

Master index of volumes 211–220

Abramov, S.A., *m*-Sparse solutions of linear ordinary differential equations with polynomial coefficients	217	(2000)	3– 15
Adams, P., E.J. Billington, I.J. Dejter and C.C. Lindner, The number of 4-cycles in 2-factorizations of K_{2n} minus a 1-factor	220	(2000)	1– 11
Alajaji, F., see H. Kuai	215	(2000)	147–158
Albertson, M.O., S. Grossman and R. Haas, Partial list colorings (*Note*)	214	(2000)	235–240
Albu, T. and M.L. Teply, Generalized deviation of posets and modular lattices	214	(2000)	1– 19
Allouche, J.-P. and G. Skordev, Schur congruences, Carlitz sequences of polynomials and automaticity	214	(2000)	21– 49
Alzer, H. and S. Ruscheweyh, A converse of Minkowski's inequality (*Note*)	216	(2000)	253–256
Archdeacon, D., J.H. Kwak, J. Lee and M.Y. Sohn, Bipartite covering graphs	214	(2000)	51– 63
Archer, A.F., On the upper chromatic numbers of the reals	214	(2000)	65– 75
Arquès, D. and A. Giorgetti, Une bijection géométrique entre une famille d'hypercartes et une famille de polygones énumérées par la série de Schröder	217	(2000)	17– 32
Arquès, D. and J.-F. Béraud, Rooted maps on orientable surfaces, Riccati's equation and continued fractions	215	(2000)	1– 12
Asari, H., T. Jiang, A. Kündgen and D.B. West, Perfection thickness of graphs (*Note*)	215	(2000)	263–264
Babson, E.K. and C.S. Chan, Counting faces of cubical spheres modulo two	212	(2000)	169–183
Balakrishnan, R., see V. Yegnanarayanan	216	(2000)	293–297
Bang-Jensen, J., Y. Guo and A. Yeo, Complementary cycles containing prescribed vertices in tournaments	214	(2000)	77– 87
Bao, X., On the blocking sets in $S(3,6,22)$ and $S(4,7,23)$ (*Note*)	219	(2000)	249–252
Baogen, X., E.J. Cockayne, T.W. Haynes, S.T. Hedetniemi and Z. Shangchao, Extremal graphs for inequalities involving domination parameters	216	(2000)	1– 10

Barcucci, E., A.D. Lungo, E. Pergola and R. Pinzani, From Motzkin to Catalan permutations	217	(2000)	33– 49
Barovich, M.V. and S.C. Locke , The cycle space of a 3-connected hamiltonian graph	220	(2000)	13– 33
Bassalygo, L., G. Cohen and G. Zémor, Codes with forbidden distances	213	(2000)	3– 11
Bauer, D., L. McGuire, H. Trommel and H.J. Veldman, Long cycles in 3-cyclable graphs	218	(2000)	1– 8
Béraud, J.-F., see D. Arquès	215	(2000)	1– 12
Bell, F.K., see P. Rowlinson	220	(2000)	271–278
Berge, C. and B. Reed, Optimal packings of edge-disjoint odd cycles (*Note*)	211	(2000)	197–202
Bergeron, F. and S. Hamel, Intersection of modules related to Macdonald's polynomials	217	(2000)	51– 64
Bezrukov, S.L., J.D. Chavez, L.H. Harper, M. Röttger and U.-P. Schroeder, The congestion of n-cube layout on a rectangular grid	213	(2000)	13– 19
Bielak, H., Sufficient condition for Hamiltonicity of N_2-locally connected claw-free graphs	213	(2000)	21– 24
Bilbao, J.M., N. Jiménez, E. Lebrón and H. Peters, The selectope for games with partial cooperation	216	(2000)	11– 27
Billington, E.J., see P. Adams	220	(2000)	1– 11
Biss, D.K., Hamiltonian decomposition of recursive circulant graphs	214	(2000)	89– 99
Blinovsky, V., Asymptotical properties of linear codes	213	(2000)	25– 28
Bóna, M. and R. Simion, A self-dual poset on objects counted by the Catalan numbers and a type-B analogue	220	(2000)	35– 49
Bode, J.-P. and H. Harborth, Hexagonal polyomino achievement	212	(2000)	5– 18
Bogart, K.P. and A.N. Trenk, Bounded bitolerance digraphs	215	(2000)	13– 20
Bollobás, B. and D.B. West, A note on generalized chromatic number and generalized girth	213	(2000)	29– 34
Bollobás, B. and O. Riordan, Polychromatic polynomials	219	(2000)	1– 7
Borodin, O.V., A.V. Kostochka and B. Toft, Variable degeneracy: extensions of Brooks' and Gallai's theorems	214	(2000)	101–112
Borowiecki, M., I. Broere and P. Mihók, Minimal reducible bounds for planar graphs	212	(2000)	19– 27
Borowiecki, M., M. Hałuszczak and M. Skowrońska, Minimal reducible bounds for 1-nonouterplanar graphs	219	(2000)	9– 15

Borwein, J.M. and P. Lisoněk, Applications of integer relation algorithms	217	(2000)	65– 82
Bray, J., C. Parker and P. Rowley, Cayley type graphs and cubic graphs of large girth	214	(2000)	113–121
Broere, I., see M. Borowiecki	212	(2000)	19– 27
Brunat, J.M. and M. Maureso, Endo-circulant digraphs of degree two and Cayley digraphs on finite abelian groups (*Note*)	211	(2000)	203–208
Cai, M.-c., X. Deng and W. Zang, Solution to a problem on degree sequences of graphs (*Note*)	219	(2000)	253–257
Cai, M.-c., see L.-y. Kang	219	(2000)	135–144
Cai, M.-c., see X.-d. Yuan	218	(2000)	293–298
Cairnie, N. and K. Edwards, The computational complexity of cordial and equitable labelling	216	(2000)	29– 34
Caporossi, G. and P. Hansen, Variable neighborhood search for extremal graphs	212	(2000)	29– 44
Caro, Y., Y. Li, C.C. Rousseau and Y. Zhang, Asymptotic bounds for some bipartite graph: complete graph Ramsey numbers	220	(2000)	51– 56
Ceulemans, A., see P.W. Fowler	212	(2000)	75– 90
Chan, C.S., see E.K. Babson	212	(2000)	169–183
Chang, C., The $n!$ conjecture and a vector bundle on the Hilbert scheme of n points in the plane	217	(2000)	83– 99
Chang, G.J., W.-T. Ke, D. Kuo, D.D.-F. Liu and R.K. Yeh, On $L(d,1)$-labelings of graphs	220	(2000)	57– 66
Chang, Y., The existence of resolvable BIBD with k even and $\lambda = 1$	218	(2000)	9– 23
Chari , M.K., On discrete Morse functions and combinatorial decompositions	217	(2000)	101–113
Chavez, J.D., see S.L. Bezrukov	213	(2000)	13– 19
Chen, G., M.S. Jacobson, A. Kézdy, J. Lehel, E.R. Scheinerman and C. Wang, Clique covering the edges of a locally cobipartite graph	219	(2000)	17– 26
Chia, G.L., On self-clique graphs with given clique sizes	212	(2000)	185–189
Chibotaru, L.F., see P.W. Fowler	212	(2000)	75– 90
Choi, S., Counting lattice paths in restricted planes	212	(2000)	191–198
Chor, B., P. Lemke and Z. Mador, On the number of ordered factorizations of natural numbers	214	(2000)	123–133
Chyzak, F., An extension of Zeilberger's fast algorithm to general holonomic functions	217	(2000)	115–134
Cockayne, E.J., D. McCrea and C.M. Mynhardt, Nordhaus–Gaddum results for CO-irredundance in graphs (*Note*)	211	(2000)	209–215

Cockayne, E.J., see X. Baogen	216	(2000)	1– 10
Cohen, G., see L. Bassalygo	213	(2000)	3– 11
Cohen, S.D. and D. Hachenberger, Primitivity, freeness, norm and trace	214	(2000)	135–144
Cohen, S.D. and N.N. Kuzjurin, On the packing radius and the covering radius of equal-weight codes	213	(2000)	35– 42
Colbourn, C.J., see A.C.H. Ling	219	(2000)	207–221
Collins, B.V.C., The Terwilliger algebra of an almost-bipartite distance-regular graph and its antipodal 2-cover	216	(2000)	35– 69
Cooperstein, B.N., A combinatorial construction of a graph with automorphism group $SO^+(2n, 2)$	219	(2000)	27– 35
Corbas, B. and G.D. Williams, Congruence classes in $M_3(F_q)$ (q odd)	219	(2000)	37– 47
Cortés, C. and A. Nakamoto, Diagonal flips in outer-torus triangulations	216	(2000)	71– 83
Cvetković, D., On the reconstruction of the characteristic polynomial of a graph	212	(2000)	45– 52
Dai, Z.D., see S.W. Golomb	219	(2000)	279–285
Dankelmann, P. and L. Volkmann, Degree sequence conditions for maximally edge-connected graphs depending on the clique number (*Note*)	211	(2000)	217–223
Davey, B.A., P.M. Idziak, W.A. Lampe and G.F. McNulty, Dualizability and graph algebras	214	(2000)	145–172
Dean, N. and M. Kouider, Gallai's conjecture for disconnected graphs	213	(2000)	43– 54
de Figueiredo, C.M.H. and K. Vušković, A class of β-perfect graphs	216	(2000)	169–193
Dejter, I.J., see P. Adams	220	(2000)	1– 11
Deng, X., see M.-c. Cai	219	(2000)	253–257
Deodhar, R.S. and M.K. Srinivasan, Explicit semisymmetric chain decomposition of the partition lattice (*Note*)	219	(2000)	259–264
Deuber, W.A. and A.V. Kostochka, On degrees of vertices in paradoxical trees	212	(2000)	53– 59
Dhavamani, R., see G. Sethuraman	218	(2000)	283–287
Di Monte, R., O. Ferri and S. Ferri, Characterization of quadric cones in a Galois projective space	218	(2000)	25– 31
Diao, K., P. Zhao and H. Zhou, About the upper chromatic number of a co-hypergraph	220	(2000)	67– 73
Dias da Silva, J.A. and A. Fonseca, Computing the rank partition and the flag transversal of a matroid	216	(2000)	85–110

Ding, C., T. Helleseth and K. Lam, Duadic sequences of prime lengths	218	(2000)	33– 49
Dodunekov, S.M. and I.N. Landjev, Near-MDS codes over some small fields	213	(2000)	55– 65
Dolph, L.L., A. Reynolds and J.A. Sellers, Congruences for a restricted m-ary partition function (*Note*)	219	(2000)	265–269
Domke, G.S., J.H. Hattingh, M.A. Henning and L.R. Markus, Restrained domination in trees	211	(2000)	1– 9
Donalies, M.A. and B.S.W. Schröder, Performance guarantees and applications for Xia's algorithm	213	(2000)	67– 86
Dougherty, S.T., M. Harada and P. Solé, Shadow lattices and shadow codes	219	(2000)	49– 64
Dumitrescu, A. and W. Steiger, On a matching problem in the plane (*Communication*)	211	(2000)	183–195
Dumitriu, I., On generalized Tribonacci sequences and additive partitions	219	(2000)	65– 83
Dumont, D., see G. Kreweras	211	(2000)	103–110
Dunbar, J.E., D.G. Hoffman, R.C. Laskar and L.R. Markus, α-Domination	211	(2000)	11– 26
Edwards, K., see N. Cairnie	216	(2000)	29– 34
Edwards, K.J., Achromatic number versus pseudoachromatic number: a counterexample to a conjecture of Hedetniemi (*Note*)	219	(2000)	271–274
Ekin, O., S. Foldes, P.L. Hammer and L. Hellerstein, Equational characterizations of Boolean function classes	211	(2000)	27– 51
El-Zanati, S., H.-L. Fu and C.-L. Shiue, On the α-labeling number of bipartite graphs (*Note*)	214	(2000)	241–243
Emelyanov, P.G. and A. Lukito, On the maximal length of a snake in hypercubes of small dimension	218	(2000)	51– 59
Enomoto, H. and M. Hagita, Toughness and the existence of k-factors. IV	216	(2000)	111–120
Enomoto, H. and T. Tokuda, Complete-factors and f-factors (*Note*)	220	(2000)	239–242
Enomoto, H., S. Matsunaga and K. Ota, Graph decompositions and D_3-paths with a prescribed endvertex	213	(2000)	87–104
Eriksson, K. and J. Karlander, Stable matching in a common generalization of the marriage and assignment models	217	(2000)	135–156
Fabrici, I., E. Hexel, S. Jendrol' and H. Walther, On vertex-degree restricted paths in polyhedral graphs	212	(2000)	61– 73

Fabrici, I., P.J. Owens and H. Walther, Non-hamiltonian polyhedral graphs with two types of faces	213	(2000)	105–113
Favaron , O., Extendability and factor-criticality	213	(2000)	115–122
Ferri, O., see R. Di Monte	218	(2000)	25– 31
Ferri, S., see R. Di Monte	218	(2000)	25– 31
Fertig, R.A., On path-sequential labellings of cycles	215	(2000)	21– 32
Fertin, G., A study of minimum gossip graphs	215	(2000)	33– 57
Fishburn, P., P. Tetali and P. Winkler, Optimal linear arrangement of a rectangular grid	213	(2000)	123–139
Fishkind, D.E., On poset similarity	220	(2000)	75– 88
Foldes, S., see O. Ekin	211	(2000)	27– 51
Fonseca, A., see J.A. Dias da Silva	216	(2000)	85–110
Fowler, P.W., A. Ceulemans and L.F. Chibotaru, Eigenvalues of Hückel systems of equivalent points	212	(2000)	75– 90
Fu, H.-L., see S. El-Zanati	214	(2000)	241–243
Fukuda, S., see Y. Shibata	218	(2000)	199–208
Funk, M. and D. Labbate, On minimally one-factorable r-regular bipartite graphs	216	(2000)	121–137
Galeana-Sánchez, H., Semikernels modulo F and kernels in digraphs	218	(2000)	61– 71
Gambrell, M.J., Vertex-neighbor-integrity of magnifiers, expanders, and hypercubes (*Note*)	216	(2000)	257–266
Gancarzewicz, G. and A.P. Wojda, Graphs with every k-matching in a Hamiltonian cycle	213	(2000)	141–151
Gentile, G., A hypergroupal characterization of projective planes	220	(2000)	89–105
Gill , R., On posets from conjugacy classes of Coxeter groups	216	(2000)	139–152
Gimbel, J. and C. Thomassen, Coloring triangle-free graphs with fixed size (*Note*)	219	(2000)	275–277
Gimbert, J., see M. Miller	218	(2000)	265–270
Ginosar, Y. and R. Holzman, The majority action on infinite graphs: strings and puppets	215	(2000)	59– 71
Giorgetti, A., see D. Arquès	217	(2000)	17– 32
Giudici, R.E. and A.A. Olivieri, Quadratic modulo 2^n Cayley graphs	215	(2000)	73– 79
Göring, F., Short proof of Menger's Theorem	219	(2000)	295–296
Goddard, W., M.A. Henning and O.R. Oellermann, Bipartite Ramsey numbers and Zarankiewicz numbers	219	(2000)	85– 95
Golomb, S.W., G. Gong and Z.D. Dai, Cyclic inequivalence of cascaded GMW-sequences (*Note*)	219	(2000)	279–285
Gong, G., see S.W. Golomb	219	(2000)	279–285

Goodman, O. and V. Moulton, On the tight span of an antipodal graph	218	(2000)	73– 96
Grant, C. and C.A. Rodger, An n to $2n$ embedding of incomplete idempotent latin squares for small values of n	211	(2000)	53– 74
Gregory, D.A., see J. Shen	212	(2000)	245–255
Grossman, S., see M.O. Albertson	214	(2000)	235–240
Guibert, O. and S. Linusson, Doubly alternating Baxter permutations are Catalan	217	(2000)	157–166
Guo, Y., M. Tewes, L. Volkmann and A. Yeo, Sufficient conditions for semicomplete multipartite digraphs to be Hamiltonian	212	(2000)	91–100
Guo, Y., see J. Bang-Jensen	214	(2000)	77– 87
Gutiérrez, A., A.S. Lladó and S.C. López, Higher edge-connectivities and tree decompositions in regular graphs (*Note*)	214	(2000)	245–250
Gutin, G., A.V. Kostochka and B. Toft, On the Hajós number of graphs	213	(2000)	153–161
Guttmann, A.J., Indicators of solvability for lattice models	217	(2000)	167–189
Guu, C.J., The /^\cFunction	213	(2000)	163–167
Hałuszczak, M., see M. Borowiecki	219	(2000)	9– 15
Haas, R., see M.O. Albertson	214	(2000)	235–240
Haas, W., Lower bounds for q-ary codes of covering radius one	219	(2000)	97–106
Hachenberger, D., see S.D. Cohen	214	(2000)	135–144
Hage, J. and T. Harju, The size of switching classes with skew gains	215	(2000)	81– 92
Hagita, M., see H. Enomoto	216	(2000)	111–120
Hajiabolhassan, H., M.L. Mehrabadi and R. Tusserkani, Minimal coloring and strength of graphs (*Note*)	215	(2000)	265–270
Hajiaghaee, M.T., E.S. Mahmoodian, V.S. Mirrokni, A. Saberi and R. Tusserkani, On the simultaneous edge-coloring conjecture (*Note*)	216	(2000)	267–272
Hamel, S., see F. Bergeron	217	(2000)	51– 64
Hammer, P.L., see O. Ekin	211	(2000)	27– 51
Hansen, P., see G. Caporossi	212	(2000)	29– 44
Harada, M. and M. Ozeki, Extremal self-dual codes with the smallest covering radius (*Note*)	215	(2000)	271–281
Harada, M., see S.T. Dougherty	219	(2000)	49– 64
Harborth, H. and H. Lefmann, Coloring arcs of convex sets	220	(2000)	107–117
Harborth, H., see J.-P. Bode	212	(2000)	5– 18

Harju, T., see J. Hage	215	(2000)	81– 92
Harper, L.H., see S.L. Bezrukov	213	(2000)	13– 19
Hartke, S.G., Binary De Bruijn cycles under different equivalence relations	215	(2000)	93–102
Hartley, M.I., Polytopes of finite type	218	(2000)	97–108
Hasunuma, T., see Y. Shibata	218	(2000)	199–208
Hattingh, J.H., see G.S. Domke	211	(2000)	1– 9
Haukkanen, P., On a generalized convolution of incidence functions	215	(2000)	103–113
Haxell, P.E. and T. Łuczak, Embedding trees into graphs of large girth (*Note*)	216	(2000)	273–278
Haynes, T.W., see X. Baogen	216	(2000)	1– 10
Heden, O. and M. Saggese, Bruen Chains in PG(3, pk), $k \geqslant 2$ (*Note*)	214	(2000)	251–253
Hedetniemi, S.T., see X. Baogen	216	(2000)	1– 10
Heinz, G., Lower and upper bounds on the total weight of semi-rich acyclic arrangements of oriented lines in the plane	219	(2000)	107–122
Hellerstein, L., see O. Ekin	211	(2000)	27– 51
Helleseth, T., see C. Ding	218	(2000)	33– 49
Henning, M.A., Graphs with least domination number three-fifths their order	216	(2000)	153–168
Henning, M.A., see G.S. Domke	211	(2000)	1– 9
Henning, M.A., see W. Goddard	219	(2000)	85– 95
Hevia, H., D.W. VanderJagt and P. Zhang, On the planarity of jump graphs	220	(2000)	119–129
Hexel, E., see I. Fabrici	212	(2000)	61– 73
Hirschhorn, M.D., Some formulae for partitions into squares (*Note*)	211	(2000)	225–228
Hoàng, C.T. and V.B. Le, On P_4-transversals of perfect graphs	216	(2000)	195–210
Hochberg, R. and M. Reid, Tiling with notched cubes (*Note*)	214	(2000)	255–261
Hoffman, D.G., see J.E. Dunbar	211	(2000)	11– 26
Holzman, R., see Y. Ginosar	215	(2000)	59– 71
Hong, Y. and J.-L. Shu, A sharp upper bound for the spectral radius of the Nordhaus–Gaddum type (*Note*)	211	(2000)	229–232
Horňák, M. and S. Jendrol', On vertex types and cyclic colourings of 3-connected plane graphs	212	(2000)	101–109
Idziak, P.M., see B.A. Davey	214	(2000)	145–172
Ishihara, T., Cameron's construction of two-graphs (*Note*)	215	(2000)	283–291

Jackson, B. and G. Ringel, Variations on Ringel's earth–moon fflproblem (*Note*)	211	(2000)	233–242
Jacobson, M.S., see G. Chen	219	(2000)	17– 26
Jamison, R.E. and H.M. Mulder, Tolerance intersection graphs on binary trees with constant tolerance 3	215	(2000)	115–131
Jendrol', S., see I. Fabrici	212	(2000)	61– 73
Jendrol', S. and H.-J. Voss, A local property of polyhedral maps on compact two-dimensional manifolds	212	(2000)	111–120
Jendrol', S., see M. Horňák	212	(2000)	101–109
Ježek, J., P. Marković, M. Maróti and R. McKenzie, Equations of tournaments are not finitely based (*Note*)	211	(2000)	243–248
Jiang, T., see H. Asari	215	(2000)	263–264
Jimbo, M., see M. Mishima	211	(2000)	135–152
Jiménez, N., see J.M. Bilbao	216	(2000)	11– 27
Johansson, R., Triangle-factors in a balanced blown-up triangle (*Note*)	211	(2000)	249–254
Johansson, R., On the bipartite case of El-Zahárs conjecture	219	(2000)	123–134
John, P.E. and H. Sachs, On a strange observation in the theory of the dimer problem	216	(2000)	211–219
Kang, L.-y. and M.-c. Cai, Upper minus domination in regular graphs	219	(2000)	135–144
Kang, Q.-d. and Z. Tian, Large sets of oriented triple systems with resolvability	212	(2000)	199–221
Karlander, J., see K. Eriksson	217	(2000)	135–156
Ke, W.-T., see G.J. Chang	220	(2000)	57– 66
Kézdy, A., see G. Chen	219	(2000)	17– 26
Keating, K., Signed shape tilings of squares	215	(2000)	133–145
Kheddouci, H., J.-F. Saclé and M. Woźniak, Packing two copies of a tree into its fourth power	213	(2000)	169–178
Kierstead, H.A., On the choosability of complete multipartite graphs with part size three (*Note*)	211	(2000)	255–259
Kierstead, H.A. and W.T. Trotter, Interval orders and dimension	213	(2000)	179–188
Kierstead, H.A., Extending partial colorings of graphs	219	(2000)	145–152
Kirillov, A.N. and T. Maeno, Quantum double Schubert polynomials, quantum Schubert polynomials and Vafa–Intriligator formula	217	(2000)	191–223
Klain, D.A., Free polygon enumeration and the area of an integral polygon	218	(2000)	109–119
Klavžar, S. and R. Škrekovski, On median graphs and median grid graphs (*Note*)	219	(2000)	287–293

Koh, K.M. and E.G. Tay, On optimal orientations of cartesian products of graphs (II): complete graphs and even cycles	211	(2000)	75–102
Koh, K.M. and E.G. Tay, On optimal orientations of G vertex-multiplications	219	(2000)	153–171
Kostochka, A.V. and I.G. Perepelitsa, Colouring triangle-free intersection graphs of boxes on the plane (*Note*)	220	(2000)	243–249
Kostochka, A.V., see G. Gutin	213	(2000)	153–161
Kostochka, A.V., see O.V. Borodin	214	(2000)	101–112
Kostochka, A.V., see W.A. Deuber	212	(2000)	53– 59
Kouider, M., see N. Dean	213	(2000)	43– 54
Kratochvíl, J. and P. Mihók, Hom-properties are uniquely factorizable into irreducible factors	213	(2000)	189–194
Kremer, D., A bijection between intervals in the Fibonacci posets	217	(2000)	225–235
Kremer, D., Permutations with forbidden subsequences and a generalized Schröder number	218	(2000)	121–130
Kreweras, G. and D. Dumont, Sur les anagrammes alternés	211	(2000)	103–110
Kündgen, A., see H. Asari	215	(2000)	263–264
Kuai, H., F. Alajaji and G. Takahara, A lower bound on the probability of a finite union of events	215	(2000)	147–158
Kuo, D., see G.J. Chang	220	(2000)	57– 66
Kurkowiak, J. and A. Ruciński, Solitary subgraphs of random graphs	213	(2000)	195–209
Kuzjurin, N.N., see S.D. Cohen	213	(2000)	35– 42
Kwak, J.H., see D. Archdeacon	214	(2000)	51– 63
Labbate, D., see M. Funk	216	(2000)	121–137
Labelle , G., Counting enriched multigraphs according to the number of their edges (or arcs)	217	(2000)	237–248
Lam, C.W.H. and Y. Miao, Cyclically resolvable cyclic Steiner triple systems of order 21 and 39	219	(2000)	173–185
Lam, K., see C. Ding	218	(2000)	33– 49
Lampe, W.A., see B.A. Davey	214	(2000)	145–172
Landjev, I.N., Linear codes over finite fields and finite projective geometries	213	(2000)	211–244
Landjev, I.N., see S.M. Dodunekov	213	(2000)	55– 65
Landsberg, M., Feedback functions for generating cycles over a finite alphabet	219	(2000)	187–194
Larrión, F. and V. Neumann-Lara, Locally C_6 graphs are clique divergent	215	(2000)	159–170

Laskar, R.C., see J.E. Dunbar	211	(2000)	11– 26
Le, V.B., see C.T. Hoàng	216	(2000)	195–210
Lebrón, E., see J.M. Bilbao	216	(2000)	11– 27
Leck, U., A property of colored complexes and their duals	213	(2000)	245–251
Lee, G.Y., J.J. McDonald, B.L. Shader and M.J. Tsatsomeros, Extremal properties of ray-nonsingular matrices	216	(2000)	221–233
Lee, J., see D. Archdeacon	214	(2000)	51– 63
Lefmann, H., see H. Harborth	220	(2000)	107–117
Lehel, J., see G. Chen	219	(2000)	17– 26
Lemke, P., see B. Chor	214	(2000)	123–133
Lemos, M. and J. Oxley, On size, circumference and circuit removal in 3-connected matroids	220	(2000)	145–157
Lemos, M. and J. Oxley, On the 3-connected matroids that are minimal having a fixed spanning restriction	218	(2000)	131–165
Lemos, M. and S. Mota, The reconstruction of a matroid from its connectivity function	220	(2000)	131–143
Leng, G., Y. Zhang and B. Ma, Largest parallelotopes contained in simplices	211	(2000)	111–123
Li, J.-S. and Z.-X., Song, An extremal problem on the potentially P_k-graphic sequences	212	(2000)	223–231
Li, K., see Y. Yang	211	(2000)	287–298
Li, M., On hamiltonian connectedness of $K_{1,4}$-free graphs (*Note*)	216	(2000)	279–285
Li, R., A Fan-type condition for claw-free graphs to be Hamiltonian	219	(2000)	195–205
Li, Y., see Y. Caro	220	(2000)	51– 56
Lin, C. and J.-J. Lin, Cycle decompositions of crowns (*Note*)	220	(2000)	251–255
Lin, J., see Y. Yang	211	(2000)	287–298
Lin, J.-J., see C. Lin	220	(2000)	251–255
Lindner, C.C., see P. Adams	220	(2000)	1– 11
Ling, A.C.H. and C.J. Colbourn, Modified group divisible designs with block size four	219	(2000)	207–221
Linusson, S., see O. Guibert	217	(2000)	157–166
Liskovets, V. and R. Pöschel, Counting circulant graphs of prime-power order by decomposing into orbit enumeration problems	214	(2000)	173–191
Lisoněk, P., see J.M. Borwein	217	(2000)	65– 82
Liu, D.D.-F., see G.J. Chang	220	(2000)	57– 66
Liu, Q.Z. and H.P. Yap, Edge colorings of K_{2n} with a prescribed condition — I	212	(2000)	233–244
Lladó, A.S., see A. Gutiérrez	214	(2000)	245–250

López, S.C., see A. Gutiérrez 214 (2000) 245–250
Locke, S.C., see M.V. Barovich 220 (2000) 13– 33
Loyola, J.O., Sequences with idempotent products from finite regular semigroups 220 (2000) 159–170
Lu, X., D.-W. Wang and C.K. Wong, On the bounded domination number of tournaments (*Note*) 220 (2000) 257–261
Łuczak, T., see P.E. Haxell 216 (2000) 273–278
Lukito, A., see P.G. Emelyanov 218 (2000) 51– 59
Lungo, A.D., see E. Barcucci 217 (2000) 33– 49

Ma, B., see G. Leng 211 (2000) 111–123
Mador, Z., see B. Chor 214 (2000) 123–133
Maeno, T., see A.N. Kirillov 217 (2000) 191–223
Magot, N. and A. Zvonkin, Belyi functions for Archimedean solids 217 (2000) 249–271
Mahdian, M., E.S. Mahmoodian, A. Saberi, M.R. Salavatipour and R. Tusserkani, On a conjecture of Keedwell and the cycle double cover conjecture (*Note*) 216 (2000) 287–292
Mahmoodian, E.S., see M. Mahdian 216 (2000) 287–292
Mahmoodian, E.S., see M.T. Hajiaghaee 216 (2000) 267–272
Marczyk, A. and G. Schaar, On traceable powers of digraphs 212 (2000) 121–128
Marković, P., see J. Ježek 211 (2000) 243–248
Markus, L.R., see G.S. Domke 211 (2000) 1– 9
Markus, L.R., see J.E. Dunbar 211 (2000) 11– 26
Maróti, M., see J. Ježek 211 (2000) 243–248
Matsunaga, S., see H. Enomoto 213 (2000) 87–104
Maureso, M., see J.M. Brunat 211 (2000) 203–208
Mays, M.E. and J. Wojciechowski, A determinant property of Catalan numbers 211 (2000) 125–133
McCrea, D., see E.J. Cockayne 211 (2000) 209–215
McDonald, J.J., see G.Y. Lee 216 (2000) 221–233
McGuire, L., see D. Bauer 218 (2000) 1– 8
McKee, T.A., Transchordal graphs 220 (2000) 171–182
McKenzie, R., see J. Ježek 211 (2000) 243–248
McNulty, G.F., see B.A. Davey 214 (2000) 145–172
Mehrabadi, M.L., see H. Hajiabolhassan 215 (2000) 265–270
Merlini, D. and M.C. Verri, Generating trees and proper Riordan Arrays 218 (2000) 167–183
Meszka, M. and Z. Skupień, On some third parts of nearly complete digraphs 212 (2000) 129–139
Miao, Y., see C.W.H. Lam 219 (2000) 173–185
Mihók, P., see J. Kratochvíl 213 (2000) 189–194

Mihók, P., see M. Borowiecki	212	(2000)	19– 27
Miller, M., J. Gimbert, J. Širáň and Slamin, Almost Moore digraphs are diregular (*Note*)	218	(2000)	265–270
Minh, H.N. and M. Petitot, Lyndon words, polylogarithms and the Riemann ζ function	217	(2000)	273–292
Mirrokni, V.S., see M.T. Hajiaghaee	216	(2000)	267–272
Mishima, M. and M. Jimbo, Recursive constructions for cyclic quasiframes and cyclically resolvable cyclic Steiner 2-designs	211	(2000)	135–152
Moore, J.T., Continuous colorings associated with certain characteristics of the continuum (*Note*)	214	(2000)	263–273
Morse, J., Bivariate Knop–Sahi and Macdonald polynomials related to q-ultraspherical functions	217	(2000)	293–299
Mosbah, M. and N. Saheb, Formal rational fractions and random walks on cycles	217	(2000)	301–313
Mota, S., see M. Lemos	220	(2000)	131–143
Moulton, V., see O. Goodman	218	(2000)	73– 96
Mulder, H., see R.E. Jamison	215	(2000)	115–131
Mynhardt, C.M., see E.J. Cockayne	211	(2000)	209–215
Nakamoto, A., see C. Cortés	216	(2000)	71– 83
Neumann-Lara, V., see F. Larrión	215	(2000)	159–170
Nilli, A., Triangle-free graphs with large chromatic numbers (*Note*)	211	(2000)	261–262
Novelli, J.-C., On the hypoplactic monoid	217	(2000)	315–336
Oellermann, O.R., see W. Goddard	219	(2000)	85– 95
Olivieri, A.A., see R.E. Giudici	215	(2000)	73– 79
Ota, K., see H. Enomoto	213	(2000)	87–104
Owens, P.J., see I. Fabrici	213	(2000)	105–113
Oxley, J. and G. Whittle, On the non-uniqueness of q-cones of matroids (*Note*)	218	(2000)	271–275
Oxley, J., see M. Lemos	218	(2000)	131–165
Oxley, J., see M. Lemos	220	(2000)	145–157
Ozeki, M., see M. Harada	215	(2000)	271–281
Parker, C., see J. Bray	214	(2000)	113–121
Peng, H. and C.H. Yan, On the discrepancy of strongly unimodular matrices	219	(2000)	223–233
Perepelitsa, I.G., see A.V. Kostochka	220	(2000)	243–249
Pergola, E., see E. Barcucci	217	(2000)	33– 49
Peters, H., see J.M. Bilbao	216	(2000)	11– 27
Petitot, M., see H.N. Minh	217	(2000)	273–292

Petrogradsky, V.M., On growth of Lie algebras, generalized partitions, and analytic functions	217	(2000)	337–351
Pikhurko, O., Asymptotic evaluation of the sat-function for r-stars (*Note*)	214	(2000)	275–278
Pinzani, R., see E. Barcucci	217	(2000)	33– 49
Plummer, M.D. and A. Saito, Closure and factor-critical graphs	215	(2000)	171–179
Pöschel, R., see V. Liskovets	214	(2000)	173–191
Polat, N., On infinite bridged graphs and strongly dismantlable graphs	211	(2000)	153–166
Prisner, E., Eccentricity-approximating trees in chordal graphs (*Note*)	220	(2000)	263–269
Puech, J., R-annihilated and independent perfect neighborhood sets in chordal graphs	215	(2000)	181–199
Rautenbach, D., Bounds on the strong domination number	215	(2000)	201–212
Rawlings, D., Restricted words by adjacencies	220	(2000)	183–200
Reed, B., see C. Berge	211	(2000)	197–202
Reid, M., see R. Hochberg	214	(2000)	255–261
Reynolds, A., see L.L. Dolph	219	(2000)	265–269
Rho, Y., An extremal problem concerning graphs not containing K_t and $K_{t,t}$ (*Note*)	211	(2000)	263–268
Rho, Y., An extremal problem concerning graphs not containing K_t and $K_{t,n-t}$ [Discrete Mathematics 187 (1998) 195–209]	219	(2000)	297
Ringel, G., see B. Jackson	211	(2000)	233–242
Riordan, O., see B. Bollobás	219	(2000)	1– 7
Röttger, M., see S.L. Bezrukov	213	(2000)	13– 19
Rodger, C.A., see C. Grant	211	(2000)	53– 74
Roichman, Y., Schubert polynomials, Kazhdan–Lusztig basis and characters	217	(2000)	353–365
Rousseau, C.C., see Y. Caro	220	(2000)	51– 56
Rowley, P., see J. Bray	214	(2000)	113–121
Rowlinson, P. and F.K. Bell, Graph eigenspaces of small codimension (*Note*)	220	(2000)	271–278
Rubinstein, J.H., see J.F. Weng	212	(2000)	257–260
Ruciński, A., see J. Kurkowiak	213	(2000)	195–209
Ruscheweyh, S., see H. Alzer	216	(2000)	253–256
Rusu, I., Even pairs in Artemis graphs	218	(2000)	185–197
Šajna, M., On the problem of a matching orthogonal to a 2-factorization (*Note*)	218	(2000)	277–282

Širáň, J., see M. Miller	218	(2000)	265–270
Škrekovski, R., List improper colorings of planar graphs with prescribed girth	214	(2000)	221–233
Škrekovski, R., see S. Klavžar	219	(2000)	287–293
Saberi, A., see M. Mahdian	216	(2000)	287–292
Saberi, A., see M.T. Hajiaghaee	216	(2000)	267–272
Sachs, H., see P.E. John	216	(2000)	211–219
Saclé, J.-F., see H. Kheddouci	213	(2000)	169–178
Saggese, M., see O. Heden	214	(2000)	251–253
Saheb, N., see M. Mosbah	217	(2000)	301–313
Saito, A., see M.D. Plummer	215	(2000)	171–179
Salavatipour, M.R., see M. Mahdian	216	(2000)	287–292
Sampathkumar, R., see V. Yegnanarayanan	216	(2000)	293–297
Sanchis, L.A., On the number of edges in graphs with a given connected domination number	214	(2000)	193–210
Sanders, D.P. and Y. Zhao, A five-color theorem (*Note*)	220	(2000)	279–281
Sapozhenko, A.A., On computing boundary functional sums	213	(2000)	253–260
Schaar, G., On special numberings of hypergraphs	213	(2000)	261–268
Schaar, G., see A. Marczyk	212	(2000)	121–128
Scheinerman, E.R., see G. Chen	219	(2000)	17– 26
Schiermeyer, I., Zs. Tuza and M. Voigt, On-line rankings of graphs	212	(2000)	141–147
Schnell, U., FCC versus HCP via parametric density (*Note*)	211	(2000)	269–274
Schröder, B.S.W., see M.A. Donalies	213	(2000)	67– 86
Schroeder, U.-P., see S.L. Bezrukov	213	(2000)	13– 19
Sellers, J.A., see L.L. Dolph	219	(2000)	265–269
Sethuraman, G. and R. Dhavamani, Graceful numbering of an edge-gluing of shell graphs (*Note*)	218	(2000)	283–287
Shader, B.L., see G.Y. Lee	216	(2000)	221–233
Shangchao, Z., see X. Baogen	216	(2000)	1– 10
Shen, J. and D.A. Gregory, Exponents of vertex-transitive digraphs	212	(2000)	245–255
Shen, J., Exponents of 2-regular digraphs	214	(2000)	211–219
Shen, J., On the girth of digraphs	211	(2000)	167–181
Shibata, Y., T. Hasunuma and S. Fukuda, Isomorphic factorization of de Bruijn digraphs	218	(2000)	199–208
Shiue, C.-L., see S. El-Zanati	214	(2000)	241–243
Shu, J.-L., see Y. Hong	211	(2000)	229–232
Simion, R., Noncrossing partitions	217	(2000)	367–409
Simion, R., see M. Bóna	220	(2000)	35– 49
Simonis, J., The [23,14,5] Wagner code is unique	213	(2000)	269–282

Skordev, G., see J.-P. Allouche	214	(2000)	21– 49
Skowrońska, M., see M. Borowiecki	219	(2000)	9– 15
Skupień, Z., see M. Meszka	212	(2000)	129–139
Slamin, see M. Miller	218	(2000)	265–270
Soffer, S.N., The Komlós–Sós conjecture for graphs of girth 7 (*Note*)	214	(2000)	279–283
Sohn, M.Y., see D. Archdeacon	214	(2000)	51– 63
Solé, P., see S.T. Dougherty	219	(2000)	49– 64
Solov'eva, F.I., Perfect binary codes: bounds and properties	213	(2000)	283–290
Song, Z.-X. see J.-S. Li	212	(2000)	223–231
Sonntag, M. and H.-M. Teichert, Sum numbers of hypertrees (*Note*)	214	(2000)	285–290
Speyer, D.E. and Z. Szaniszló, Every tree is 3-equitable (*Note*)	220	(2000)	283–289
Srinivasan, M.K., see R.S. Deodhar	219	(2000)	259–264
Steffen, E., Vizing's theorem (*Note*)	218	(2000)	289–291
Steiger, W., see A. Dumitrescu	211	(2000)	183–195
Stoimenow, A., On the number of chord diagrams	218	(2000)	209–233
Surowski, D.B., Liftings of automorphisms of hypermaps	215	(2000)	213–224
Szaniszló, Z., see D.E. Speyer	220	(2000)	283–289
Szucs, J.M., The asymptotic numbers of certain kinds of regular toroidal maps	215	(2000)	225–244
Takahara, G., see H. Kuai	215	(2000)	147–158
Tay, E.G., see K.M. Koh	211	(2000)	75–102
Tay, E.G., see K.M. Koh	219	(2000)	153–171
Taylor, B.D., Row-convex tableaux and the combinatorics of initial terms	217	(2000)	411–427
Teichert, H.-M., see M. Sonntag	214	(2000)	285–290
Teply, M.L., see T. Albu	214	(2000)	1– 19
Tesar, E.H., Genus distribution of Ringel ladders	216	(2000)	235–252
Tetali, P., see P. Fishburn	213	(2000)	123–139
Tewes, M., see Y. Guo	212	(2000)	91–100
Thomassen, C., see J. Gimbel	219	(2000)	275–277
Tian, Z., see Q.-d. Kang	212	(2000)	199–221
Tillich, J.-P., Edge isoperimetric inequalities for product graphs	213	(2000)	291–320
Toft, B., see G. Gutin	213	(2000)	153–161
Toft, B., see O.V. Borodin	214	(2000)	101–112
Togni, O., Irregularity strength and compound graphs	218	(2000)	235–243
Tokuda, T., see H. Enomoto	220	(2000)	239–242
Topp, J. and P.D. Vestergaard, α_k- and γ_k-stable graphs	212	(2000)	149–160

Traldi, L., Series and parallel reductions for the Tutte polynomial (*Note*)	220	(2000)	291–297
Trenk, A.N., see K.P. Bogart	215	(2000)	13– 20
Trommel, H., see D. Bauer	218	(2000)	1– 8
Trotter, W.T., see H.A. Kierstead	213	(2000)	179–188
Tsatsomeros, M.J., see G.Y. Lee	216	(2000)	221–233
Turner III, G.E., An included-minor result for 3-connected graphs with contractible edges (*Note*)	214	(2000)	291–297
Tusserkani, R., see H. Hajiabolhassan	215	(2000)	265–270
Tusserkani, R., see M. Mahdian	216	(2000)	287–292
Tusserkani, R., see M.T. Hajiaghaee	216	(2000)	267–272
Tuza, Z., Extremal bi-Helly families	213	(2000)	321–331
Tuza, Zs., see I. Schiermeyer	212	(2000)	141–147
Tyshkevich, R., Decomposition of graphical sequences and unigraphs	220	(2000)	201–238
Ueda, T., Gray codes for necklaces	219	(2000)	235–248
Urroz, J.J., Congruences for the partition function in certain arithmetic progressions (*Note*)	211	(2000)	275–280
Ushio, K., $\bar{S}_k$-factorization of symmetric complete tripartite digraphs (*Note*)	211	(2000)	281–286
Ushio, K., Star-factorization of symmetric complete bipartite multi-digraphs (*Note*)	215	(2000)	293–297
VanderJagt, D.W., see H. Hevia	220	(2000)	119–129
Veldman, H.J., see D. Bauer	218	(2000)	1– 8
Verri, M.C., see D. Merlini	218	(2000)	167–183
Vestergaard, P.D., see J. Topp	212	(2000)	149–160
Voigt, M., see I. Schiermeyer	212	(2000)	141–147
Volkmann, L., see P. Dankelmann	211	(2000)	217–223
Volkmann, L., see Y. Guo	212	(2000)	91–100
Voss, H.-J., see S. Jendrol'	212	(2000)	111–120
Vušković, K., see C.M.H. de Figueiredo	216	(2000)	169–193
Walther, H., see I. Fabrici	212	(2000)	61– 73
Walther, H., see I. Fabrici	213	(2000)	105–113
Wang, C., see G. Chen	219	(2000)	17– 26
Wang, C., see Y. Yang	211	(2000)	287–298
Wang, D.-W., see X. Lu	220	(2000)	257–261
Weng, J.F. and J.H. Rubinstein, A note on the compression theorem for convex surfaces	212	(2000)	257–260
Wessel, W., A short solution of Heawood's empire problem on the torus and implications for higher genus	212	(2000)	161–165

West, D.B., see B. Bollobás	213	(2000)	29– 34
West, D.B., see H. Asari	215	(2000)	263–264
Whittle, G., see J. Oxley	218	(2000)	271–275
Williams, G.D., see B. Corbas	219	(2000)	37– 47
Winkler, P., see P. Fishburn	213	(2000)	123–139
Wojciechowski, J., see M.E. Mays	211	(2000)	125–133
Wojda , A.P., A note on the colour class of a self-complementary graph	213	(2000)	333–336
Wojda, A.P., see G. Gancarzewicz	213	(2000)	141–151
Wong, C.K., see X. Lu	220	(2000)	257–261
Woźniak, M., see H. Kheddouci	213	(2000)	169–178
Yan, C.H., see H. Peng	219	(2000)	223–233
Yang, Y., J. Lin, C. Wang and K. Li, On Kotzig's conjecture concerning graphs with a unique regular path-connectivity (*Note*)	211	(2000)	287–298
Yap, H.P., see Q.Z. Liu	212	(2000)	233–244
Yegnanarayanan, V., R. Balakrishnan and R. Sampathkumar, On the existence of graphs with prescribed coloring parameters (*Note*)	216	(2000)	293–297
Yeh, R.K., see G.J. Chang	220	(2000)	57– 66
Yeo, A., see J. Bang-Jensen	214	(2000)	77– 87
Yeo, A., see Y. Guo	212	(2000)	91–100
Yuan. X.-d. and M.-c. Cai, Vertices of degree k in a minimally k-edge-connected digraph (*Note*)	218	(2000)	293–298
Zang, W., see M.-c. Cai	219	(2000)	253–257
Zémor, G., see L. Bassalygo	213	(2000)	3– 11
Zhang, F., see H. Zhang	212	(2000)	261–269
Zhang, H. and F. Zhang, The Clar covering polynomial of hexagonal systems III	212	(2000)	261–269
Zhang, P., see H. Hevia	220	(2000)	119–129
Zhang, Y., see G. Leng	211	(2000)	111–123
Zhang, Y., see Y. Caro	220	(2000)	51– 56
Zhao, P., see K. Diao	220	(2000)	67– 73
Zhao, Y., see D.P. Sanders	220	(2000)	279–281
Zhou, H., see K. Diao	220	(2000)	67– 73
Zhu, X., The game coloring number of pseudo partial k-trees	215	(2000)	245–262
Zioło , I.A., TT_n-maximal digraphs of the minimum size	213	(2000)	337–353
Zverovich, I.E., Multi-intersection graphs	218	(2000)	245–251
Zvonkin, A., see N. Magot	217	(2000)	249–271
Zwonek, M., Pseudototal colourings of digraphs	218	(2000)	253–263

The FREE e-mail service which delivers Elsevier Science book and journal tables of contents directly to your PC

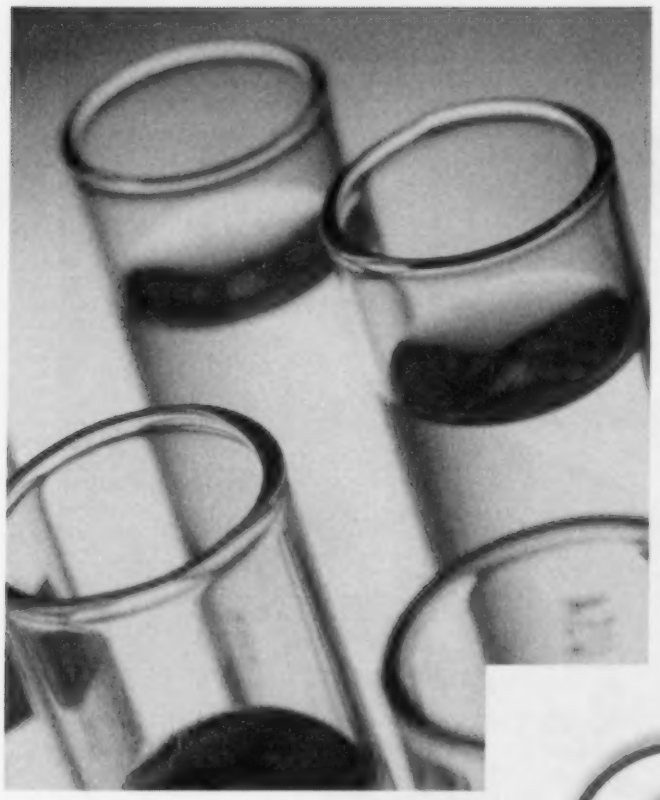
CONTENTS direct

Sign-up is simple!

1. ALL YOU HAVE TO DO IS VISIT THE CONTENTSDIRECT WEBSITE
2. FOLLOW THE INSTRUCTIONS TO REGISTER YOUR BOOK AND JOURNAL INTERESTS ONLINE
3. THEN SIT BACK AND ENJOY ADVANCE E-MAIL NOTIFICATION OF THE VERY LATEST RESEARCH IN YOUR AREAS OF INTEREST

REGISTER TODAY

www.elsevier.com/locate/contentsdirect



BRINGING THE

WORLD'S LARGEST

SCIENTIFIC DATABASE

TO YOUR DESKTOP

SCIENCE DIRECT®

ScienceDirect® provides electronic full text access to more than 1,100 scientific, technical and medical journals published by Elsevier Science and the leading STM publishers.

- Desktop access to more than 750,000 full text articles across 14 fields of science
- Intuitive search and navigation through a simple Web-based interface
- Direct links to full text through a broad collection of secondary databases – delivered via the Internet or your local Intranet
- Current and back issues of journals plus links to document delivery services

www.sciencedirect.com

NEW YORK	AMSTERDAM	SINGAPORE	TOKYO	RIO DE JANEIRO
+1 212 633 3809	+31 20 485 3767	+65 434 3716	+81 3 5561 5035	+55 21 509 5340
usinfo@sciencedirect.com	nlinfo@sciencedirect.com	sginfo@sciencedirect.com	jpinfo@sciencedirect.com	brinfo@sciencedirect.com

9 097 056 1

Scope of the Journal

The aim of this journal is to bring together research papers in different areas of discrete mathematics. Contributions presented to the journal can be research papers, short notes, surveys, and possibly research problems. The 'Communications' section will be devoted to the fastest possible publication of the brief outlines of recent research results, the detailed presentation of which might be submitted for possible publication in DISC or elsewhere. The journal will also publish a limited number of book announcements, as well as proceedings of conferences. The journal will publish papers in combinatorial mathematics and related areas. In particular, graph and hypergraph theory, network theory, coding theory, block designs, lattice theory, the theory of partially ordered sets, combinatorial geometries, matroid theory, extremal set theory, logic and automata, matrices, polyhedra, discrete probability theory, etc. shall be among the fields covered by the journal.

Instructions to contributors

All contributions should be written in English or French, should have an abstract in English (as well as one in French if the paper is written in French), and—with the exception of Communications—should be sent in triplicate to Nelly Segal, Editorial Manager, RUTCOR, Rutgers, the State University of New Jersey, 640 Bartholomew Road, Piscataway, NJ 08854-8003, USA. The authors are requested to put their mailing address on the manuscript.

Upon acceptance of an article, the author(s) will be asked to transfer copyright of the article to the Publisher. This transfer will ensure the widest possible dissemination of information.

Manuscripts submitted for the Communications section, having at most 5 typewritten pages, should be sent to a member of the editorial board in triplicate. Detailed proofs do not have to be included, but results must be accompanied at least by rough outlines of their proofs. Subsequent publication in this journal or elsewhere of the full text of a research report, the outline of which has been published in the Communications section of our journal, is not excluded. Every effort shall be made for the fastest possible publication of Communications.

Please make sure that the paper is submitted in its final form. Corrections in the proofstage, other than of printer's errors, should be avoided; costs arising from such extra corrections will be charged to the authors.

The manuscript should be prepared for publication in accordance with instructions given in the 'Instructions to Authors' (available from the Publisher) details of which are condensed below:

- The manuscript must be typed on one side of the paper in double spacing with wide margins. A duplicate copy should be retained by the author.
- Special care should be given to the preparation of the drawings for figures and diagrams. Except for a reduction in size, they will appear in the final printing in exactly the same form as they were submitted by the author; normally they will not be redrawn by the printer. In order to make a photographic reproduction possible, all drawings should be on separate sheets, with wide margins, drawn large size, in Indian ink, and carefully lettered. Exceptions are diagrams only containing formulae and a small number of single straight lines (or arrows); these can be typeset by the printer.
- References should be listed alphabetically, in the same way as the following examples:
  For a book: W.K. Chen, Applied Graph Theory (North-Holland, Amsterdam, 1971).
  For a paper in a journal: P. Erdős, Some recent problems and results in graph theory, Discrete Math. 164 (1997) 81–85.
  For a paper in a contributed volume: M.O. Rabin, Weakly definable relations and special automata, in: Y. Bar-Hillel, ed., Mathematical Logic and Foundations of Set Theory (North-Holland, Amsterdam, 1970) 1–23.
  For an unpublished paper: R. Schrauwen, Series of singularities and their topology, Ph.D. Thesis, Utrecht University, Utrecht, 1991.
- LaTeX: If your manuscript has been prepared with (La)TeX, then your files may be of use to us for producing galley proofs and for printing. We only wish to receive the files once a paper has been accepted. Kindly send an MSDOS-formatted floppy disc with the final version. The contents of the files on the floppy should be exactly the same as the hard copy that we receive from you. If the file is suitable, proofs will be produced without rekeying the text. The article should be encoded in Elsevier-LaTeX, standard LaTeX, or AMS-LaTeX (in document style 'article'). *No changes from the accepted version are permissble, without the explicit approval by the Editor. The Publisher reserves the right to decide whether to use the author's file or not*. If the file is sent by e-mail, the name of the journal *Discrete Mathematics*, should be mentioned in the "subject field" of the message to identify the paper. Authors should include an ASCII table (available from the Publisher) in their files to enable the detection of transmission errors. The files should be mailed to: Michael D. Griffin, Elsevier Science B.V., P.O. Box 103, 1000 AC Amsterdam, Netherlands, Fax: (31-20) 4852616. E-mail: m.griffin@elsevier.nl.

The Elsevier LaTeX package (including detailed instructions for LaTeX preparation) can be obtained from the Comprehensive TeX Archive Network (CTAN). Search for Elsevier on the CTAN Search page (http://www.ucc.ie/cgi-bin/ctan), or the CTAN-Web page (http://tug2.cs.umb.edu/ctan/), or use direct access via FTP at ftp.dante.de (Germany), ftp.tex.ac.uk (UK), or tug2.cs.umb.edu (Massachusetts, USA) and go to the directory /tex-archive/macros/latex/contrib/supported/elsevier. The Elsevier package consists of the files: ascii.tab (ASCII table), elsart.cls (use this file if you are using LaTeX2e, the current version of LaTeX), elsart.sty and elsart12.sty (use these two files if you are using LaTeX2.09, the previous version of LaTeX), instraut.dvi and/or instraut.ps (instruction booklet), readme. CTAN is a mirrored network of ftp.tex.ac.uk, ftp.dante.de and tug2.cs.umb.edu, which are widely mirrored (see http://tug2.cs.umb.edu/ctan/ctansite.txt) and hold up-to-date copies of all the public-domain versions of TeX, LaTeX, Metafont and ancillary programs.

Author's benefits

1. 30% discount on all book publications of North-Holland.
2. 50 reprints are provided free of charge to the principal author of each paper published.

USA mailing notice: Discrete Mathematics (ISSN 0012-365X) is published (total 16 issues) by Elsevier Science B.V. (P.O. Box 211, 1000 AE Amsterdam, The Netherlands). Annual subscription price in the USA US$3709.00 (valid in North, Central and South America), including air speed delivery. Periodical postage rate paid at Jamaica, NY 11431.
USA POSTMASTER: Send address changes to Discrete Mathematics. Publications Expediting Inc., 200 Meacham Ave, Elmont, NY 11003.
AIRFREIGHT AND MAILING in the USA by Publications Expediting Inc., 200 Meacham Avenue, Elmont, NY 11003.

CONTENTS direct

This journal is part of **ContentsDirect**, the ***free*** alerting service which sends tables of contents by e-mail for Elsevier Science books and journals. You can register for **ContentsDirect** online at: **www.elsevier.nl/locate/contentsdirect**

0012-365X(2000)211/220;1-7

Keep track of recently published papers
http://www.elsevier.nl/locate/disc